

10/546,003

FILE 'HOME' ENTERED AT 15:57:07 ON 29 SEP 2006

=> set abbr on pmer

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=> set abbr on perm

SET COMMAND COMPLETED

=> set plurals on perm

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=> file uspatfull caplus japio

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TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

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FILE 'USPATFULL' ENTERED AT 15:57:46 ON 29 SEP 2006

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FILE 'CAPLUS' ENTERED AT 15:57:46 ON 29 SEP 2006

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FILE 'JAPIO' ENTERED AT 15:57:46 ON 29 SEP 2006

COPYRIGHT (C) 2006 Japanese Patent Office (JPO)- JAPIO

=> e grubbs robert/in

E1 3 GRUBBS MICHAEL/IN

E2 9 GRUBBS MICHAEL R/IN

E3 5 --> GRUBBS ROBERT/IN

E4 2 GRUBBS ROBERT A/IN

E5 1 GRUBBS ROBERT B/IN

E6 2 GRUBBS ROBERT E/IN

E7 4 GRUBBS ROBERT EUGENE/IN

E8 188 GRUBBS ROBERT H/IN

E9 20 GRUBBS ROBERT HOWARD/IN

E10 1 GRUBBS RODNEY U/IN

E11 6 GRUBBS ROY C/IN

E12 1 GRUBBS ROY E/IN

=> s e8

L1 188 "GRUBBS ROBERT H"/IN

=> s (metathesis or ring(1w)open?)(s)hydrogenat?

L2 3473 (METATHESIS OR RING(1W) OPEN?)(S) HYDROGENAT?

=> s l1 and l2

L3 9 L1 AND L2

=> d l3 1-9 ibib abs

L3 ANSWER 1 OF 9 USPATFULL on STN

ACCESSION NUMBER: 2003:335499 USPATFULL

TITLE: Synthesis of A,B-alternating copolymers by olefin metathesis reactions of cyclic olefins or olefinic polymers with an acyclic diene

INVENTOR(S): Choi, Tae-Lim, Pasadena, CA, UNITED STATES

Lee, Choon Woo, Pasadena, CA, UNITED STATES

Rutenberg, Isaac M., Pasadena, CA, UNITED STATES

Grubbs, Robert H., South Pasadena, CA, UNITED

STATES

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2003236377	A1	20031225
	US 6987154	B2	20060117
APPLICATION INFO.:	US 2003-371195	A1	20030219 (10)

	NUMBER	DATE
PRIORITY INFORMATION:	US 2002-359055P	20020219 (60)
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	APPLICATION	
LEGAL REPRESENTATIVE:	REED & EBERLE LLP, 800 MENLO AVENUE, SUITE 210, MENLO PARK, CA, 94025	
NUMBER OF CLAIMS:	46	
EXEMPLARY CLAIM:	1	
NUMBER OF DRAWINGS:	1 Drawing Page(s)	
LINE COUNT:	2245	

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB This invention relates generally to synthetic procedures that include the step of ring-opening metathesis of cyclic olefins and reaction with an acyclic diene co-reactant to produce regularly repeating A,B-alternating olefin polymers. The A,B-alternating polymers are produced by varying reaction conditions and/or reactant proportions and using only two types of olefin metathesis (ring-opening and cross) to provide regularly repeating ABAB . . . etc. polymers via ring-opening metathesis polymerization (ROMP). More particularly, the invention pertains to synthesis of A,B-alternating olefin polymers via olefin metathesis reactions using a Group 8 transition metal complex as the metathesis catalyst. Polymers provided herein have utility in a variety of fields, including not only polymer chemistry per se, but also in the pharmaceutical, biomedical, and packaging industries where the structure and properties of polymers need to be tightly controlled.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L3 ANSWER 2 OF 9 USPATFULL on STN

ACCESSION NUMBER: 2003:335489 USPATFULL
TITLE: Ring-expansion of cyclic olefins by olefin metathesis reactions with an acyclic diene
INVENTOR(S): Choi, Tae-Lim, Pasadena, CA, UNITED STATES
Lee, Choon Woo, La Canada, CA, UNITED STATES
Kim, Hyunjin M., San Ramon, CA, UNITED STATES
Grubbs, Robert H., South Pasadena, CA, UNITED STATES

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2003236367	A1	20031225
	US 7034096	B2	20060425
APPLICATION INFO.:	US 2003-371196	A1	20030219 (10)

	NUMBER	DATE
PRIORITY INFORMATION:	US 2002-359055P	20020219 (60)
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	APPLICATION	
LEGAL REPRESENTATIVE:	REED & EBERLE LLP, 800 MENLO AVENUE, SUITE 210, MENLO PARK, CA, 94025	
NUMBER OF CLAIMS:	47	
EXEMPLARY CLAIM:	1	
LINE COUNT:	2063	

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB This invention relates generally synthetic procedures that include the step of ring-opening metathesis of cyclic olefins and reaction with an acyclic diene co-reactant to produce olefin macrocycles by ring expansion, or alternatively. The ring expansion of the cyclic olefin is provided by three types of sequential olefin metathesis (ring-opening, cross, and ring-closing olefin metathesis). More particularly, the invention pertains to synthesis of olefin macrocycles via olefin metathesis reactions using a Group 8 transition metal complex as the metathesis catalyst. Macrocycles provided herein have a variety of uses in the pharmaceutical, biomedical, organic synthesis and chemical industries, such as the production of crown ethers that are useful as metal complexing species.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L3 ANSWER 3 OF 9 USPATFULL on STN

ACCESSION NUMBER: 2002:160830 USPATFULL
TITLE: Methods for cross-methathesis of terminal olefins
INVENTOR(S): Grubbs, Robert H., South Pasadena, CA, United States
O'Leary, Daniel J., Claremont, CA, United States
Blackwell, Helen E., Somerville, MA, United States
PATENT ASSIGNEE(S): California Institute of Technology, Pasadena, CA, United States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 6414097	B1	20020702
APPLICATION INFO.:	US 2001-919658		20010731 (9)
RELATED APPLN. INFO.:	Division of Ser. No. US 2000-491800, filed on 26 Jan 2000, now patented, Pat. No. US 6306988		

	NUMBER	DATE
PRIORITY INFORMATION:	US 1999-117270P	19990126 (60)
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	GRANTED	
PRIMARY EXAMINER:	Wu, David W.	
ASSISTANT EXAMINER:	Harlan, R.	
LEGAL REPRESENTATIVE:	Pillsbury Winthrop LLP	
NUMBER OF CLAIMS:	21	
EXEMPLARY CLAIM:	1	
NUMBER OF DRAWINGS:	0 Drawing Figure(s); 0 Drawing Page(s)	
LINE COUNT:	396	

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB A method for the cross-metathesis of terminal olefins is disclosed. The method describes making disubstituted internal olefin products by contacting a first terminal olefin with another first terminal olefin to form a dimer and then contacting the dimer with a second terminal olefin in the presence of a catalyst having the formula ##STR1##

where M may be Os or Ru, R and R^{sup.1} may be the same or different and may be hydrogen or a substituent group selected from C_{sub.1}-C_{sub.20} alkyl, C_{sub.2}-C_{sub.20} alkenyl, C_{sub.2}-C_{sub.20}alkynyl, aryl, C_{sub.1}C_{sub.20} carboxylate, C_{sub.1}-C_{sub.20} alkoxy, C_{sub.2}-C_{sub.20} alkenyloxy, C_{sub.2}-C_{sub.20} alkynyloxy, aryloxy, C_{sub.2}-C_{sub.20} alkoxy carbonyl, C_{sub.1}-C_{sub.20} alkylthio, C_{sub.1}-C_{sub.20} alkylsulfonyl, and C_{sub.1}-C_{sub.20} alkylsulfinyl. X and X^{sup.1} may be the same or different and may be any anionic ligand. L and L^{sup.1} may be the same or different and may be any neutral electron donor.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L3 ANSWER 4 OF 9 USPATFULL on STN

ACCESSION NUMBER: 2002:38021 USPATFULL
TITLE: Metathesis syntheses of pheromones or their components
INVENTOR(S): Pederson, Richard L., San Gabriel, CA, UNITED STATES
Grubbs, Robert H., South Pasadena, CA, UNITED STATES

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2002022741	A1	20020221
	US 6696597	B2	20040224
APPLICATION INFO.:	US 2001-833018	A1	20010410 (9)
RELATED APPLN. INFO.:	Continuation-in-part of Ser. No. US 1999-387486, filed on 1 Sep 1999, GRANTED, Pat. No. US 6215019		

	NUMBER	DATE
PRIORITY INFORMATION:	WO 2000-US31549	20001117
	US 1998-98792P	19980901 (60)
	US 1999-166543P	19991118 (60)
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	APPLICATION	
LEGAL REPRESENTATIVE:	STOEL RIVES LLP, 900 SW FIFTH AVENUE, SUITE 2600, PORTLAND, OR, 97204	
NUMBER OF CLAIMS:	124	
EXEMPLARY CLAIM:	1	
NUMBER OF DRAWINGS:	40 Drawing Page(s)	
LINE COUNT:	2316	

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The present invention relates to metathesis syntheses for insect sex-attractant pheromones or their components, such as E-5-decenyl acetate, the major component of the Peach Twig Borer pheromone; (5R, 6S)-6-acetoxy-5-hexadecanolide, the mosquito oviposition attractant pheromone; E9, Z11-hexadecadienal, the pecan nut casebearer moth pheromone; 9-tetradecenyl formate, an analog of the Diamondback Moth (DBM) pheromone; 11-tetradecenyl acetate, the Omnivorous Leafroller (OLR) pheromone; E-4-tridecenyl acetate, the major component of the Tomato Pinworm (TPW) pheromone; E,E-8,10-dodecadienol, the Codling Moth (CM) pheromone. The syntheses preferably employ a Class I-IV metathesis catalyst, entail few reaction steps, use generally commercially available starting materials, and have relatively short process times. These syntheses produce good yields without the need for expensive or sophisticated equipment. The invention also provides an inexpensive route for producing omega-haloalkenols by cross-metathesizing alpha-omega-diacetoxy alkenes and alpha-omega-dihalides to yield omega-haloalkenols, which are easily converted into omega-haloalkanols under traditional hydrogenation methods.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L3 ANSWER 5 OF 9 USPATFULL on STN

ACCESSION NUMBER: 2001:185420 USPATFULL
TITLE: Methods for cross-metathesis of terminal olefins
INVENTOR(S): Grubbs, Robert H., South Pasadena, CA, United States
O'Leary, Daniel J., Claremont, CA, United States
Blackwell, Helen E., Somerville, MA, United States
PATENT ASSIGNEE(S): California Institute of Technology, Pasadena, CA, United States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 6306988	B1	20011023
APPLICATION INFO.:	US 2000-491800		20000126 (9)

	NUMBER	DATE
PRIORITY INFORMATION:	US 1999-117270P	19990126 (60)
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	GRANTED	
PRIMARY EXAMINER:	Wu, David W.	
ASSISTANT EXAMINER:	Harlan, R.	
LEGAL REPRESENTATIVE:	Pillsbury Winthrop, LLP, Garde, Tanuja V.	
NUMBER OF CLAIMS:	19	
EXEMPLARY CLAIM:	1	
LINE COUNT:	392	

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB A method for the cross-metathesis of terminal olefins is disclosed. The method describes making disubstituted internal olefin products by contacting a first terminal olefin with another first terminal olefin to form a dimer and then contacting the dimer with a second terminal olefin in the presence of a catalyst having the formula ##STR1##

where M may be Os or Ru, R and R.sup.1 may be the same or different and may be hydrogen or a substituent group selected from C.sub.1 -C.sub.20 alkyl, C.sub.2 -C.sub.20 alkenyl, C.sub.2 -C.sub.20 alkynyl, aryl, C.sub.1 -C.sub.20 carboxylate, C.sub.1 -C.sub.20 alkoxy, C.sub.2 -C.sub.20 alkenyloxy, C.sub.2 -C.sub.20 alkynyloxy, aryloxy, C.sub.2 -C.sub.20 alkoxycarbonyl, C.sub.1 -C.sub.20 alkylthio, C.sub.1 -C.sub.20 alkylsulfonyl, and C.sub.1 -C.sub.20 alkylsulfinyl. X and X.sup.1 may be the same or different and may be any anionic ligand. L and L.sup.1 may be the same or different and may be any neutral electron donor.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L3 ANSWER 6 OF 9 CAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 2003:678852 CAPLUS
DOCUMENT NUMBER: 139:214889
TITLE: Ring expansion of cyclic olefins by olefin metathesis reactions with an acyclic diene and ring-opening polymerization of the cyclic olefins
INVENTOR(S): Choi, Tae-Lim; Lee, Choon Woo; Rutenberg, Isaac M.; Kim, Hyunjin M.; Grubbs, Robert H.
PATENT ASSIGNEE(S): California Institute of Technology, USA
SOURCE: PCT Int. Appl., 94 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2003070779	A1	20030828	WO 2003-US5207	20030219
W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, UZ, VC, VN, YU, ZA, ZM, ZW			
RW:	GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG			
AU 2003216352	A1	20030909	AU 2003-216352	20030219
US 2003236377	A1	20031225	US 2003-371195	20030219
US 6987154	B2	20060117		
US 2003236367	A1	20031225	US 2003-371196	20030219

US 7034096 B2 20060425
 EP 1483300 A1 20041208 EP 2003-742846 20030219
 R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
 IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK
 JP 2005517774 T2 20050616 JP 2003-569686 20030219
 PRIORITY APPLN. INFO.: US 2002-359055P P 20020219
 WO 2003-US5207 W 20030219

OTHER SOURCE(S): MARPAT 139:214889

AB This invention relates generally to synthetic procedures that include the step of ring-opening metathesis of cyclic olefins and reaction with an acyclic diene co-reactant to produce olefin macrocycles by ring expansion, or alternatively, to produce regularly repeating A,B-alternating olefin polymers. The ring expansion of the cyclic olefin is provided by three types of sequential olefin metathesis (ring-opening, cross, and ring-closing olefin metathesis), and the A,B-alternating polymers are produced by simply varying the reaction conditions and/or reactant proportions and using only two types of olefin metathesis (ring-opening and cross) to provide regularly repeating ABAB...etc. polymers via ring-opening metathesis polymerization (ROMP). More particularly, the invention pertains to synthesis of olefin macrocycles and A,B-alternating olefin polymers via olefin metathesis reactions using a Group 8 transition metal complex as the metathesis catalyst to provide metathesis insertion of the diene monomer into the backbone of the polyolefin. A typical polymer was manufactured by polymerization of 90 mg 1,4-butanediol diacrylate with 65 µL of cyclooctene in the presence of (ImesH₂)(PCy₃)Cl₂Ru:CHPh, and a typical macrocyclic product was manufactured by. Also, the polymers provided herein have utility in a variety of fields, including not only polymer chemical per se, but also in the pharmaceutical, biomedical, and packaging industries where the structure and properties of polymers need to be tightly controlled.

REFERENCE COUNT: 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L3 ANSWER 7 OF 9 CAPLUS COPYRIGHT 2006 ACS on STN

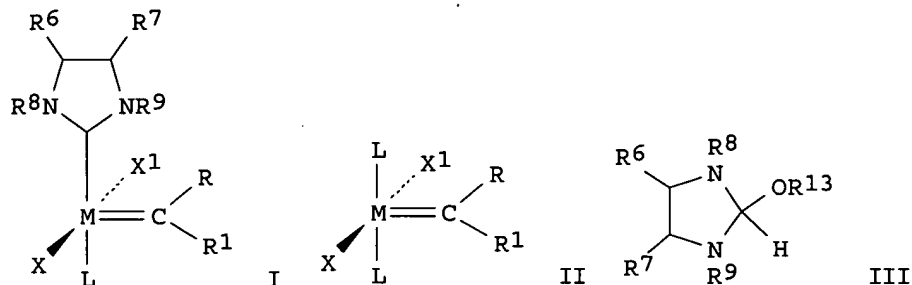
ACCESSION NUMBER: 2000:842145 CAPLUS
 DOCUMENT NUMBER: 134:29790
 TITLE: Imidazolidine-based metal carbene metathesis catalysts
 INVENTOR(S): Grubbs, Robert H.; Scholl, Matthias
 PATENT ASSIGNEE(S): California Institute of Technology, USA
 SOURCE: PCT Int. Appl., 40 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2000071554	A2	20001130	WO 2000-US14048	20000522
WO 2000071554	A3	20010705		
W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			
RW:	GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG			
CA 2372746	AA	20001130	CA 2000-2372746	20000522
EP 1180108	A2	20020220	EP 2000-937665	20000522
EP 1180108	B1	20030827		

R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, MC, PT, IE,
SI, LT, LV, FI, RO

BR 2000010389	A	20020319	BR 2000-10389	20000522
JP 2003500412	T2	20030107	JP 2000-619810	20000522
AT 248182	E	20030915	AT 2000-937665	20000522
ES 2206248	T3	20040516	ES 2000-937665	20000522
AU 777357	B2	20041014	AU 2000-52807	20000522
PRIORITY APPLN. INFO.:			US 1999-135493P	P 19990524
			US 1999-142853P	P 19990707
			WO 2000-US14048	W 20000522

OTHER SOURCE(S): MARPAT 134:29790
GI



AB Metathesis catalysts with an imidazolidine-based ligand have general structure I (M = Ru, Os; X, X1 = anionic ligand; L = neutral electron donor ligand; R, R1, R6-9 = H, C1-20 alkyl, C2-20 alkenyl, C2-20 alkynyl, aryl, C1-20 carboxylate, C1-20 alkoxy, C2-20 alkenyloxy, C2-20 alkynyloxy, aryloxy, C2-20 alkoxy carbonyl, C1-20 alkylthiol, arylthiol, C1-20 alkylsulfonyl, C1-20 alkylsulfinyl) and are prepared by contacting complex II with imidazolidine compound III (R13 = C1-20 alkyl, aryl). The inclusion of an imidazolidine ligand to the previously described ruthenium or osmium catalysts has been found to dramatically improve the properties of these complexes. The inventive catalysts maintains the functional group tolerance of previously described ruthenium complexes while having enhanced metathesis activity that compares favorably to prior art tungsten and molybdenum systems.

L3 ANSWER 8 OF 9 CAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 2000:227579 CAPLUS

DOCUMENT NUMBER: 132:252195

TITLE: Regio-regular functionalized polymeric packaging material

INVENTOR(S): Bansleben, Donald A.; Huynh-Tran, Truc-Chi; Blanski, Rusty L.; Hughes, Paul A.; Roberts, William P.; Grubbs, Robert H.; Hatfield, Galen R.

PATENT ASSIGNEE(S): Cryovac, Inc., USA

SOURCE: PCT Int. Appl., 50 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2000018579	A1	20000406	WO 1999-US21826	19990920
W:	AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ,			

TM, TR, TT, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ,
MD, RU, TJ, TM
RW: GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE,
DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF,
CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG

US 6203923	B1	20010320	US 1998-161663	19980929
CA 2343032	AA	20000406	CA 1999-2343032	19990920
AU 9961561	A1	20000417	AU 1999-61561	19990920
AU 748802	B2	20020613		
BR 9914103	A	20010731	BR 1999-14103	19990920
EP 1124686	A1	20010822	EP 1999-948364	19990920
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
JP 2002525397	T2	20020813	JP 2000-572081	19990920
JP 3327910	B2	20020924		
NZ 510172	A	20030429	NZ 1999-510172	19990920

PRIORITY APPLN. INFO.:
US 1998-161663 A 19980929
WO 1999-US21826 W 19990920

AB The title packaging material comprises at least one layer wherein at least one of the layer comprises a linear, regioregular functionalized hydrocarbon polymer having repeating units represented by the formula: CH₂(CR₂)aCHXCHY wherein X and Y each independently represents hydrogen, a C1-3 alkyl or a functional group selected from hydroxyl, carboxylic acid, carboxylic acid ester, acetate, amide, nitrile or carbonyl group, provided at least one of the X and Y represents a functional group; each R independently represents hydrogen or a C1-5 alkyl; and "a" represents an integer of 1 to 9. The polymers are prepared, e.g., by ring-opening metathesis polymerization of 1-hydroxycyclooct-4-ene and hydrogenation of the resulting polymer.

REFERENCE COUNT: 7 THERE ARE 7 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L3 ANSWER 9 OF 9 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 1999:640914 CAPLUS
DOCUMENT NUMBER: 131:258114
TITLE: Linear functional regio-regular copolymers and their manufacture
INVENTOR(S): Bansleben, Donald A.; Huynh-Tran, True-chi Thi;
Blanski, Rusty L.; Hughes, Paul A.; Roberts, William P.; Grubbs, Robert H.; Hatfield, Galen R.
PATENT ASSIGNEE(S): Cryovac, Inc., USA
SOURCE: PCT Int. Appl., 41 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9950331	A1	19991007	WO 1999-US6578	19990325
W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, GH, GM, HU, ID, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, SD, SL, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
US 6153714	A	20001128	US 1998-52079	19980331
CA 2326797	AA	19991007	CA 1999-2326797	19990325
AU 9931157	A1	19991018	AU 1999-31157	19990325
AU 749972	B2	20020704		
BR 9909231	A	20001128	BR 1999-9231	19990325

JP 3264442	B2	20020311	JP 2000-541228	19990325
JP 2002509961	T2	20020402		
EP 1235871	A1	20020904	EP 1999-912894	19990325
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI, CY				
NZ 506824	A	20030228	NZ 1999-506824	19990325
TW 460486	B	20011021	TW 1999-88104918	19990717
US 6506860	B1	20030114	US 2000-671163	20000928
PRIORITY APPLN. INFO.:			US 1998-52079	A 19980331
			WO 1999-US6578	W 19990325

AB The title polymer has a linear hydrocarbon polymer backbone with vicinal functional groups having O and/or N-containing groups, such as hydroxy, carboxylic acid or ester, carbonyl acetate, amide, nitrile and the like, pendent from the polymer backbone chain in a regio-regular manner and is prepared by ring-opening metathesis polymerization of cyclic precursor, optionally followed by hydrogenation of the chain. Hydrogenated poly(5-cyclooctene-trans-1,2-diol) had number-average mol. weight 23,900, polydispersity 2, tensile modulus 180.3 ksi, and toughness 9226 in.-lb/in.3; vs. no value, no value, 337.2, and 888, resp., for conventional EVAL polymer.

REFERENCE COUNT: 6 THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

=> d 13 9 hit

L3 ANSWER 9 OF 9 CAPLUS COPYRIGHT 2006 ACS on STN

IN Bansleben, Donald A.; Huynh-Tran, True-Chi Thi; Blanski, Rusty L.; Hughes, Paul A.; Roberts, William P.; Grubbs, Robert H.; Hatfield, Galen R.

AB The title polymer has a linear hydrocarbon polymer backbone with vicinal functional groups having O and/or N-containing groups, such as hydroxy, carboxylic acid or ester, carbonyl acetate, amide, nitrile and the like, pendent from the polymer backbone chain in a regio-regular manner and is prepared by ring-opening metathesis polymerization of cyclic precursor, optionally followed by hydrogenation of the chain. Hydrogenated poly(5-cyclooctene-trans-1,2-diol) had number-average mol. weight 23,900, polydispersity 2, tensile modulus 180.3 ksi, and toughness 9226 in.-lb/in.3; vs. no value, no value, 337.2, and 888, resp., for conventional EVAL polymer.

=> d 13 7 hit

L3 ANSWER 7 OF 9 CAPLUS COPYRIGHT 2006 ACS on STN

IN Grubbs, Robert H.; Scholl, Matthias

IT 21622-00-4P, Cyclopent-3-ene-1,1-dicarboxylic acid diethyl ester
 25038-78-2P, Dicyclopentadiene homopolymer 25103-85-9P, Cyclopentene homopolymer 26353-15-1P, cis,cis-Cycloocta-1,5-diene homopolymer
 28603-38-5P, cis-Cyclooctene homopolymer 68865-44-1P 69596-51-6P
 165549-24-6P 165549-26-8P 215167-65-0P 304022-56-8DP,
 1,5-Dimethyl-1,5-cyclooctadiene homopolymer, hydrogenated
 304022-56-8P, 1,5-Dimethyl-1,5-cyclooctadiene homopolymer 310397-73-0P
 310397-74-1P 310397-75-2P 310397-76-3P
 RL: IMF (Industrial manufacture); PREP (Preparation)
 (metathesis reaction using imidazolidine-based metal carbene catalysts)

=> d 13 8 hit

L3 ANSWER 8 OF 9 CAPLUS COPYRIGHT 2006 ACS on STN

IN Bansleben, Donald A.; Huynh-Tran, Truc-Chi; Blanski, Rusty L.; Hughes, Paul A.; Roberts, William P.; Grubbs, Robert H.; Hatfield, Galen

R.

AB The title packaging material comprises at least one layer wherein at least one of the layer comprises a linear, regioregular functionalized hydrocarbon polymer having repeating units represented by the formula: $\text{CH}_2(\text{CR}_2)_a\text{CHXCHY}$ wherein X and Y each independently represents hydrogen, a C1-3 alkyl or a functional group selected from hydroxyl, carboxylic acid, carboxylic acid ester, acetate, amide, nitrile or carbonyl group, provided at least one of the X and Y represents a functional group; each R independently represents hydrogen or a C1-5 alkyl; and "a" represents an integer of 1 to 9. The polymers are prepared, e.g., by ring-opening metathesis polymerization of 1-hydroxycyclooct-4-ene and hydrogenation of the resulting polymer.